The 27th International Conference on Parallel and Distributed Computing, Applications and Technologies

湖南大学 HUNAN UNIVERSITY

国家超级计算长沙中心 NATIONAL SUPERCOMPUTING CENTER IN CHANGSHA

PDCAT 2026

Hilton Changsha Riverside
28-30 Nov. 2026, Changsha, Hunan, China

PRELIMINARY CALL FOR PAPERS

The International Conference on **P**arallel and **D**istributed **C**omputing, **A**pplications and **T**echnologies (PDCAT) is a major forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of parallel and distributed computing. Started in Hong Kong in 2000, PDCAT 2026 will be held in Changsha, China, after 26 years of success in many cities of countries, including Japan, China, Singapore, Australia, New Zealand, and Korea across Asia-Oceania. We are inviting new and unpublished papers on, but not limited to, the following topics:

Networking and Architectures:
Interconnection networks
Parallel/distributed architectures
Heterogeneous and multimedia Systems
Reliability, and fault-tolerance
Ubiquitous computing systems
Computer networks, Optical networks
Communication and telecommunication
Wireless networks and mobile computing
Internet of Things (IoT)
Cloud/Grid computing systems
Reconfigurable architecture

Software Systems and Technologies:
Task mapping and job scheduling
Formal methods and programming languages
Internet computing and applications
Quantum computing and algorithms
Image processing and computer vision
Agent-based technologies
Operating systems and system software
Software tools and development environments
Parallelizing compilers and optimization
Web services and distributed applications
Component-based software technologies
Simulation, modeling, and visualization

Algorithms and Applications:
Artificial Intelligence algorithms
Database systems and data mining
Intelligent computing and neural networks
Parallel and distributed algorithms
Big data computing and analytics
Distributed data and knowledge-based systems
Image processing and computer graphics
High-performance scientific computing
Reconfigurable high-performance computing systems
Resource allocation and management
Network routing and communication algorithms
Bioinformatics and computational biology

Security and Privacy:
Distributed federated learning paradigms
Quantum-enabled federated learning frameworks
Privacy-preserving mechanisms for artificial intelligence
Security of artificial intelligence systems
Privacy-preserving crowd intelligence
Attack and defense algorithms in federated learning
Attack and defense strategies for edge computing
Quantum-based defense mechanisms in federated learning paradigms
Privacy-preserving computation techniques
Database security and cloud security
Access control, authorization, and biometric security

PAPER SUBMISSION GUIDELINE:

Papers reporting original and unpublished research results and experience are solicited. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Papers should be formatted according to the Springer LNCS format. Extended versions of selected papers will be invited to special issues of SCI-indexed international journals.

ORGANIZING COMMITTEE:

General Chair: Kenli Li, Hunan University, China
                 Chan Tong Lam, Macao Polytechnic U, China
Program Chairs: Zhuo Tang, Hunan University, China
                 Hui Tian, Griffith University, Australia

CONFERENCE WEBSITE: www.pd-cat.org
SPONSORS: Hunan University, Springer

IMPORTANT DATES:

Paper submission deadline: 1 Aug. 2026
Author notification: 15 Sep. 2026
Camera-ready version due: 30 Sep. 2026
Conference: 28-30 Nov. 2026

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